

# CLAIMS

1. A manufacturing method for a plasma display panel by which electrodes are formed on a surface of a substrate in a first process and a dielectric glass layer is formed on the electrodes  
5 in a second process, the second process comprising:

a grinding step for grinding a dielectric glass material;

a spheroidizing step for converting each particle of the ground dielectric glass material into a spheroidal form;

10 an applying step for applying a mixture of the spheroidal dielectric glass particles and a binder, as a layer, to the surface of the substrate on which the electrodes are formed; and

a firing step for firing the layer to remove the binder from  
15 the layer, thereby forming a dielectric glass layer.

2. The manufacturing method of Claim 1,

wherein the spheroidizing step is performed by melting the surface of particles of the ground dielectric glass material.

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3. The manufacturing method of Claim 2,

wherein the melting is performed by putting the particles of the ground dielectric glass material into a plasma jet.

4. The manufacturing method of Claim 2,

wherein the melting is performed by exposing the particles of the ground dielectric glass material to an atmosphere at a temperature no higher than the softening point of the particles.

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5. The manufacturing method of Claim 1,

wherein the spheroidizing step is performed by having the particles of the glass material collide with one another in high-speed gas flows.

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6. The manufacturing method of Claim 1,

wherein the second process further comprises a step of classifying the glass particles, which is performed between the spheroidizing step and the applying step, so that a maximum diameter of the spheroidal particles of the dielectric glass material does not exceed a half thickness of the dielectric glass layer after the firing step.

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7. The manufacturing method of Claim 1,

wherein the applying step is performed by placing a dielectric glass sheet on the surface of the substrate, the dielectric glass sheet being obtained by mixing the spheroidal glass particles with a thermoplastic resin.

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8. An image display apparatus, comprising:

a plasma display panel manufactured by one of the methods of Claims 1 to 7; and

a driving circuit for driving the plasma display panel.

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